

PHOTOGRAPHIC INTERPRETATION REPORT

TALLINN AMM/SAM LAUNCH COMPLEX AND CHEREPOVETS SUSPECT AMM/SAM LAUNCH COMPLEX, USSR



CIA



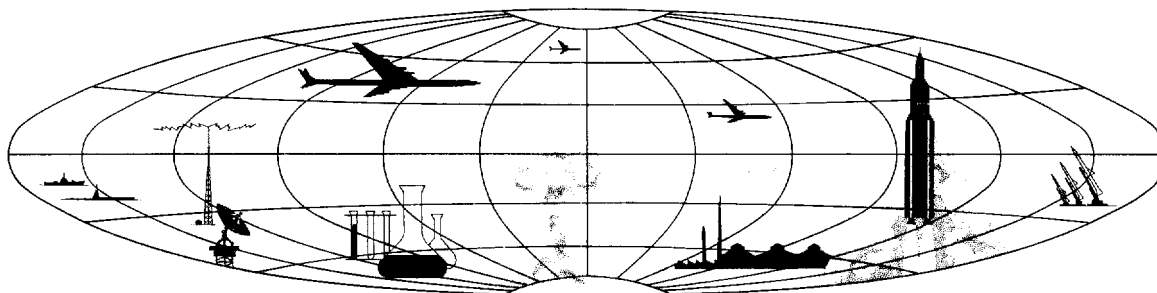
DIA

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TCS-7881/64

PHOTOGRAPHIC INTERPRETATION REPORT

TALLINN AMM/SAM LAUNCH COMPLEX
AND CHEREPOVETS SUSPECT
AMM/SAM LAUNCH COMPLEX, USSR

NPIC/R-852/64

September 1964

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A new AMM/SAM launch complex under construction at 59-24-███N 24-19-███E, 13 nautical miles (nm) west-southwest of Tallinn (Figure 1), was revealed by KEYHOLE photography of ██████

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A suspect AMM/SAM launch complex, in an early stage of construction when observed on KEYHOLE photography of ██████ is located at 59-06-███N 38-10-00E, 8 nm east-southeast of Cherepovets.

No missiles or missile-related equipment were identified at either complex.

This report was prepared in response to a CIA requirement requesting information pertaining to these complexes.

TALLINN AMM/SAM LAUNCH COMPLEX

The Tallinn Complex is situated on the site of the former Vaana Airfield at an approximate elevation of 100 feet above mean sea level, and is located on the Gulf of Finland, 185 nm west-southwest of Leningrad (Figure 1).

There was no evidence of construction activity associated with the Tallinn Complex when the area was observed on KEYHOLE photography of ██████

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Subsequent to the ██████ photography the Tallinn Complex was covered by KH-4 KEYHOLE photography of Mission ██████

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2). Portions of the complex were obscured by scattered clouds and cloud shadows on ██████

The secured complex is road served and occupies an area of approximately 550 acres. Facilities under construction include a launch area, prepared areas or hardstands extending

west from the launch area access road, and an ██████ launch area (Figure 3). Support facilities of the abandoned airfield are probably being utilized since no new such facilities are observed in the vicinity. An active borrow pit is located approximately 2 nm southwest of the complex.

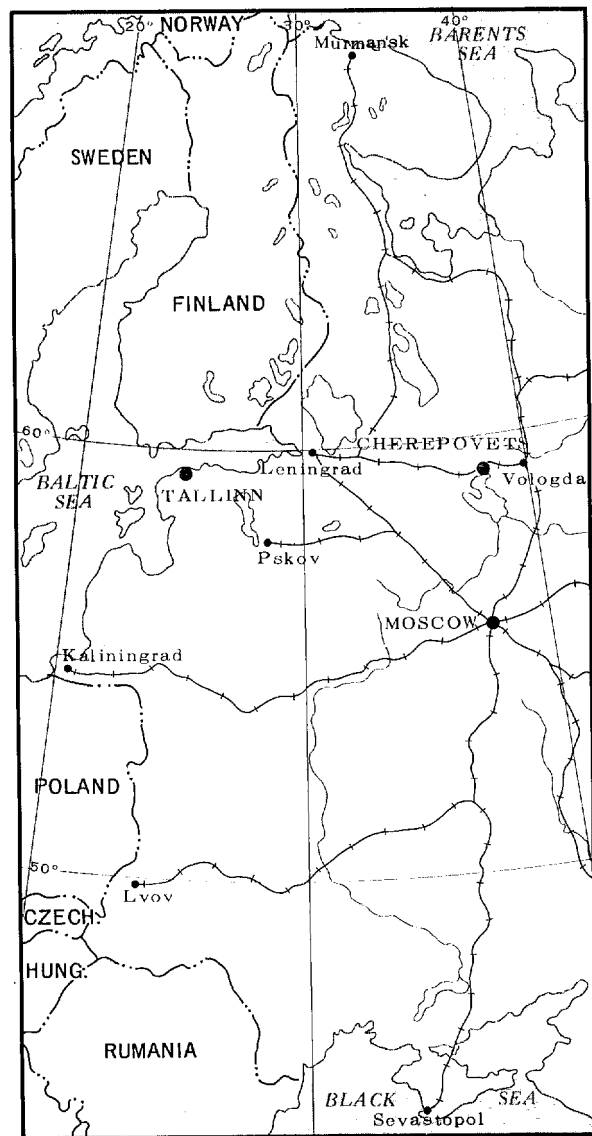


FIGURE 1. LOCATIONS OF AMM/SAM LAUNCH COMPLEX AND SUSPECT COMPLEX.

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A new bypass road, constructed since [REDACTED] diverts traffic away from the complex on its west side. This road is not within the area shown graphically in this report.

The launch area is served by a north-north-east/south-southwest main road with an access road extending from it to each of five launch sites. Each of the five launch sites has six revetted launch positions in varying stages of construction (see Table 1 and Figures 4 and 5). A comparable revetted launch position, similar in many respects, was recently constructed at Launch Site 3, Launch Complex A, Sary-Shagan Antimissile Test Center.

The launch sites at the Tallinn Complex are arbitrarily assigned designators A through E in this report, and the launch positions are

numbered 1 through 6, clockwise, beginning with the first position to the left of the site access road as shown in Figure 5, Site A.

Azimuths of the long axes of the launch positions (see Table 1) range from approximately [REDACTED]

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Five of the launch positions were in a preliminary construction stage (Figure 4) when the complex was first observed, but considerable progress occurred in the interval between [REDACTED]

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Measurements of the rectangular launch pads, within covered revetment walls (Figure 5, Launch Position A-2), are approximately 180 by 55 feet. The pad surfaces vary in tone and texture (see Table 1).



FIGURE 4. LAUNCH AREA, TALLINN AMM/SAM LAUNCH COMPLEX-- [REDACTED]

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Revetment walls are observed to be light in tone, composition undetermined, in an earlier construction stage (Figure 5, Launch Site E), in contrast to the dark tone of probable earth-covered walls at Launch Sites A and B. Piles of material along the edges of some of the launch pads at the base of the walls, Launch Positions B-1, B-6, D-1 for example, probably represent a phase in the earth covering process.

Loop roads serving the individual launch positions (Figures 5 and 6) measure approximately 20 feet in width, while the launch site access roads including the portions encircling the site centers, measure approximately 25 feet in width (Figure 7). The north-northeast/south-southwest main road serving the launch sites is estimated to be approximately 30 feet in width (Figure 5).

The foregoing road widths represent averages of measurements at a limited number of locations. Similarities in tone of road surfaces and adjacent shoulders, fill, or ditches create the problem of distinguishing road limits. Revetments have been constructed opposite the open end or side of some of the launch positions.

Hardstands are under construction at the centrally located probable guidance areas of

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These excavations appear square in some cases (for example Launch Position C-3, Figure 7) measuring approximately 15 feet on a side, and some appear round (Launch Position C-1) and measure approximately in diameter. Similar excavations are not discernible at Launch Positions A-3, A-4, A-5, and E-4.

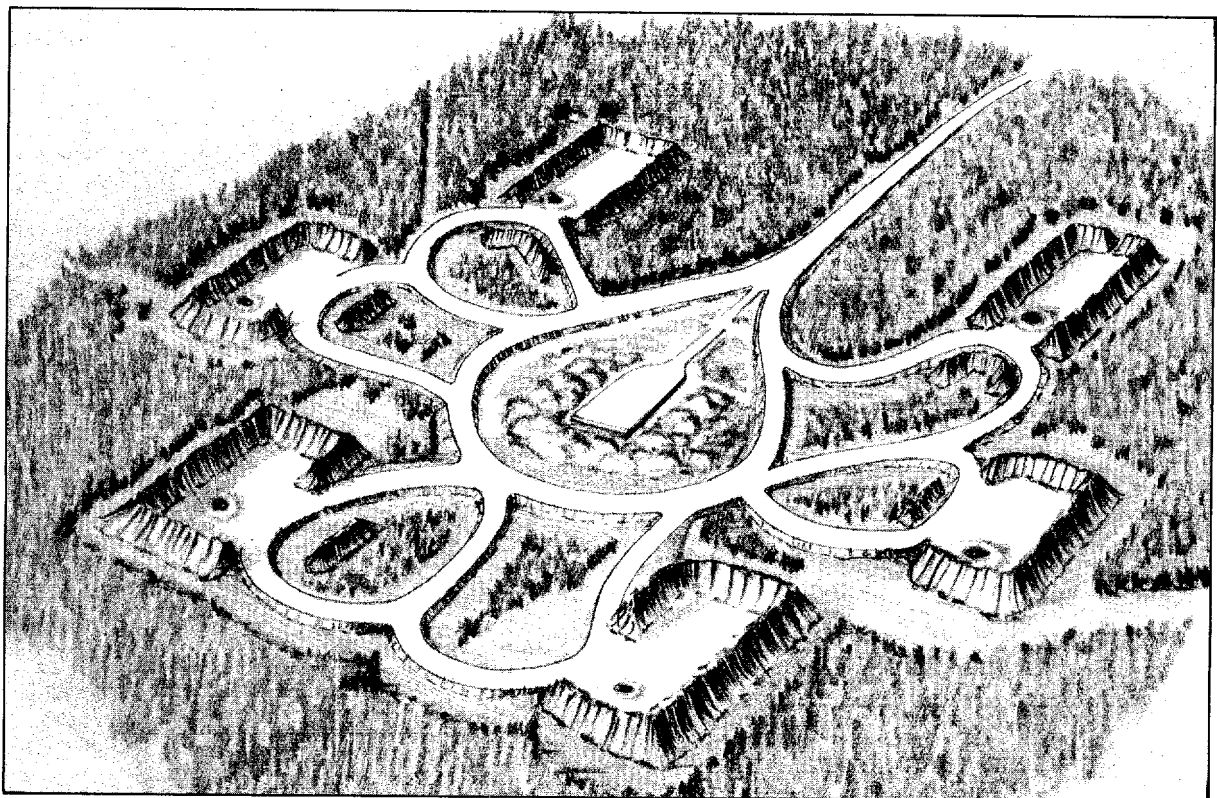


FIGURE 6. ARTIST'S CONCEPT OF TYPICAL LAUNCH SITE, TALLINN AMM/SAM LAUNCH COMPLEX.

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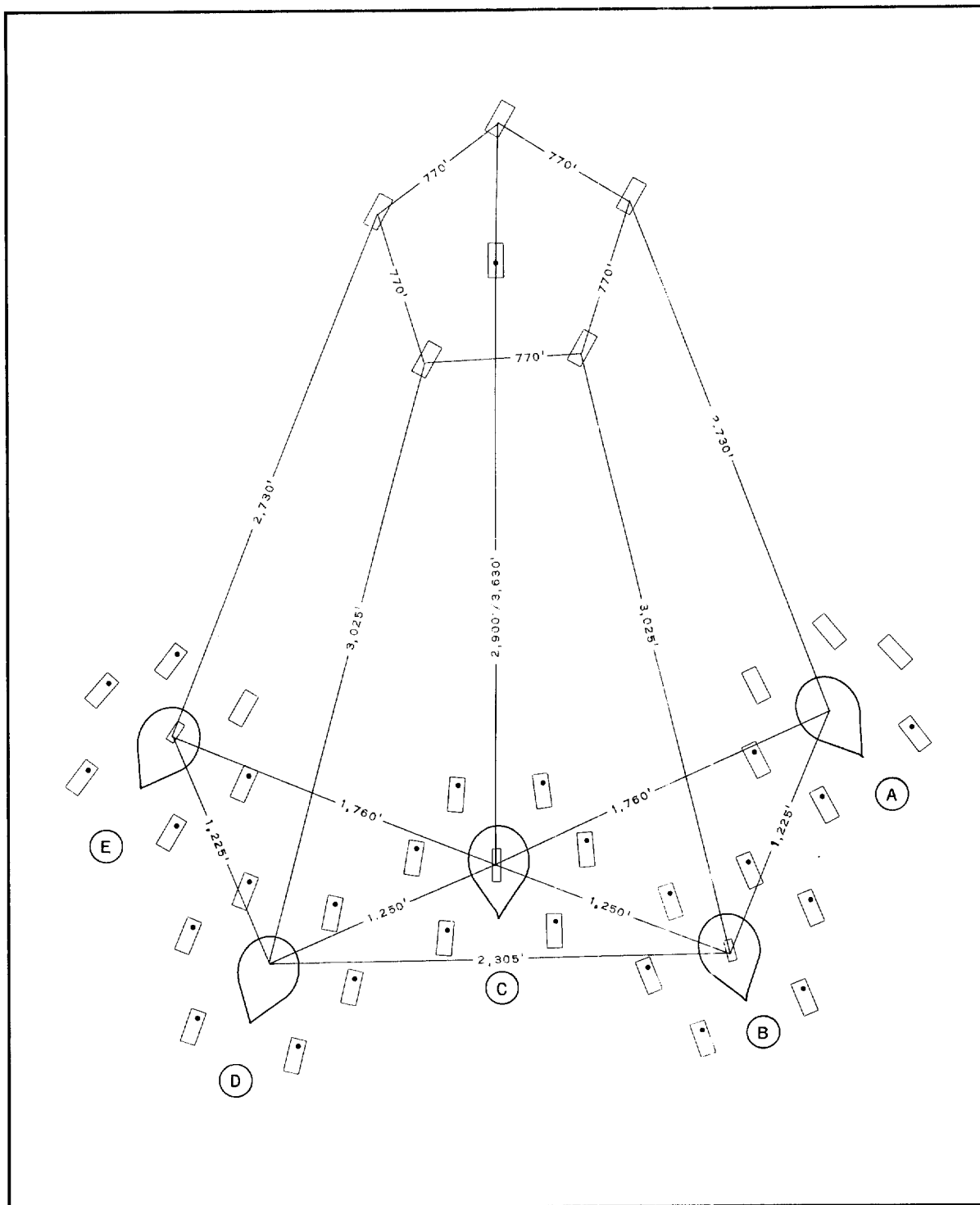
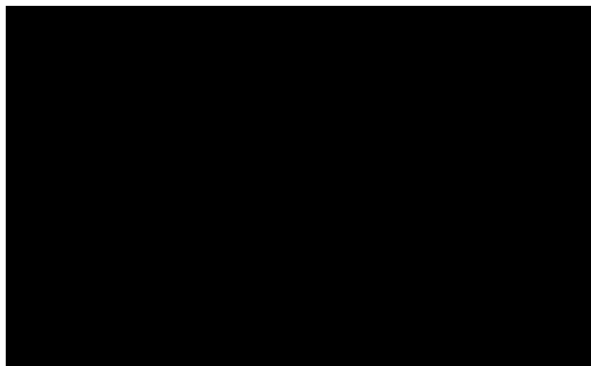


FIGURE 9. SCHEMATIC DIAGRAM, TALLINN AMM/SAM LAUNCH COMPLEX.

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The complex is enclosed by a security fence with a portion bordering the western and northwestern sides being of probable board construction (Figure 3). Evidence of a probable outer fence under construction at the northwestern corner of the complex is indicated by a parallel trace first observed on the photography of [REDACTED]

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A group of buildings near the entrance to the complex (Figures 2 and 3) was associated with the former airfield. Another group of buildings and a probable steam plant (not shown) are located approximately 0.5 nm west of the complex. The latter group includes two buildings 115 by 50 feet, two 65 by 50 feet, and one 100 by 60 feet.

Vehicular traffic is observed within the launch area and at least seven vehicles, some in motion, are located in the borrow pit 2.0 nm to the southwest.

CHEREPOVETS SUSPECT AMM/SAM LAUNCH COMPLEX

The Cherepovets Suspect AMM/SAM Launch Complex, located 8.0 nm east-southeast of Cherepovets, occupies an area of approximately 537 acres and is being constructed in partially wooded terrain on the north side of the Sheksna River. This complex is 425 nm east of the Tallinn AMM/SAM Launch Complex, 245 nm east-southeast of Leningrad and 200 nm north-northeast of Moscow (Figure 1).

The double-fenced complex consists of five hexagonal areas which are suspect launch sites in preliminary stages of construction (Figure 10). Rectangular clearings within the borders of some of the hexagons (Site B, Figure 10) are arranged in a pattern similar to the launch positions at the Tallinn AMM/SAM Launch Complex. These clearings vary somewhat in size and average approximately 220 by 130 feet. The peripheries of the five sites are cleared and in some cases appear as ditches.

An east-west road under construction north of the suspect launch sites could equate to the launch area access road at the Tallinn Complex.

An accurate determination of launch site azimuths is not possible because of their early construction stage. An overall approximate complex azimuth, based on long axes of visible clearings, ranges from approximately 335 to 35 degrees.

Distances separating the hexagonal sites center-to-center are as follows: A to B 1,645 feet; B to C 1,110 feet; C to D 1,645 feet; D to E 1,350 feet.

No signs of construction activity at this location were visible on relatively distinct KEYHOLE photography of [REDACTED]. Several of the site borders and portions of the double fencing were visible on KEYHOLE photography of [REDACTED]. Interpretation of that photography was limited by snow cover and atmospheric haze.

The Cherepovets Complex was next covered by KEYHOLE photography of [REDACTED]

Construction progress occurred at Site A during the period between [REDACTED]. The western and southwestern borders were observed as linear clearings on the [REDACTED] coverage and as earth scarring, possibly ditches, on the [REDACTED] photography. Construction progress was also observed along the edges of the clearing

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within Site A. An outline for an additional clearing within Site A was also first observed on the [REDACTED] photography.

Sites A and E and portions of sites B, C, and D were visible through scattered clouds and

haze on KEYHOLE photography of [REDACTED]. Widening of the southern border of Site C was the only change discernible at the five sites.

Fence lines shown in Figure 10 were transferred from earlier photography and superim-

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FIGURE 10. CHEREPOVETS SUSPECT AMM/SAM LAUNCH COMPLEX. Under construction.

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25X1D posed over the [REDACTED] coverage shown.

Ample space remains within the security fence south of the five sites for construction of additional facilities.

A portion of the inner fence bordering the complex on the north is probably of board construction.

A group of buildings located 0.5 nm north-west of the suspect launch sites under construction may be a support area for the complex. It is located adjacent to the east side of a railroad leading from Cherepovets to a petroleum storage installation 1.5 nm south-southeast of the Support Area. Buildings in this area and their dimensions include four barracks-type: three

140 by 60 feet and one 160 by 70. One long, narrow, low structure closely parallels the rail line, and another higher structure perpendicular to it are barely distinguishable on indistinct photography.

None of these buildings were present when the area was covered by clear photography of [REDACTED]

Two of the barracks-type buildings were visible through heavy cloud cover on photography of [REDACTED] 25X1D

The other two barracks-type buildings were in an early construction stage in [REDACTED] 25X1D

and appeared complete when observed on photography of [REDACTED] 25X1D

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REFERENCES

TALLINN

PHOTOGRAPHY

25X1D

Mission	Date	Pass	Camera	Frames	Index No	Classification
[REDACTED]						TOP SECRET RUFF
						TOP SECRET RUFF
						TOP SECRET RUFF
						TOP SECRET RUFF

MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0153-2HL, 3d ed, Aug 63, scale 1:200,000 (SECRET)

DOCUMENT

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1. NPIC. R-704/64, *Northwest Probable Antimissile-Missile Launch Complex, Leningrad, USSR*, Aug 64 (TOP SECRET CHESS RUFF) [REDACTED]

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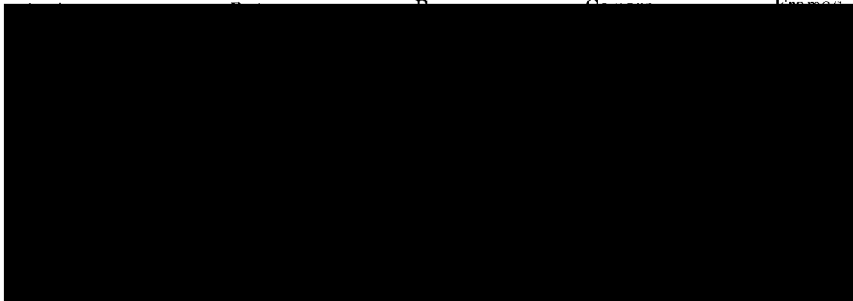
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REFERENCES (Continued)

CHEREPOVETS

PHOTOGRAPHY

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Classification

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TOP SECRET RUFF

TOP SECRET RUFF
TOP SECRET RUFF

MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0154-8HL, 2d ed, Mar 64, scale 1:200,000 (SECRET)

REQUIREMENTS

CIA. ORR/C-RR4-81,634

CIA. Supplement to ORR/C-RR4-81,634

NPIC PROJECT

N-827/64

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